



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/899,412	07/05/2001	Neal R. Cutler	CUTLER-06326 3297 EXAMINER	
23535 7	590 10/19/2005			
MEDLEN & CARROLL, LLP			YEBASSA, DESTA LETTA	
101 HOWARD STREET SUITE 350			ART UNIT	PAPER NUMBER
SAN FRANCI	SCO, CA 94105		1615	
			DATE MAILED: 10/19/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/899,412	CUTLER, NEAL R.			
		Examiner	Art Unit			
		Desta L. Yebassa	1615			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
 WHICHEVER IS Extensions of time manual after SIX (6) MONTHS If NO period for reply Failure to reply within Any reply received by 	STATUTORY PERIOD FOR REPLY LONGER, FROM THE MAILING DARY be available under the provisions of 37 CFR 1.15 from the mailing date of this communication. It is specified above, the maximum statutory period with the set or extended period for reply will, by statute the Office later than three months after the mailing lijustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)☐ Responsive	e to communication(s) filed on <u>25 A</u>	ugust 2005				
	This action is FINAL . 2b) ☑ This action is non-final.					
<u>'</u>	· —					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Clain	·		•			
4)⊠ Claim(s) <i>1-</i>	4)⊠ Claim(s) <u>1-8,13 and 16-19</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
_ `	-					
	6)⊠ Claim(s) <u>1-8,13 and 16-19</u> is/are rejected.					
7) Claim(s) _	Claim(s) is/are objected to.					
8) Claim(s)	Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9) ☐ The specific	ation is objected to by the Examine	r.				
<u> </u>			Examiner.			
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.	S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
2.☐ Certi						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
appli	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Da		6) Other:				

Art Unit: 1615

DETAILED ACTION

Receipt is acknowledged of applicant's Amendment and Responses filed in 08/25/2005.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1, 2, 4-8 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Caruso (U.S. Patent No. 6,043,244).

Caruso teaches a method treating migraines wherein dihydroergotamine is administered with an antimigraine-potentiating amount of an NMDA receptor antagonist (Col. 3, lines 14-58). Caruso contemplates all modes of administration (Col. 6, lines 3-67', Col. 7, lines 1-31). Specifically, sublingual administration is taught in the form of a tablet, drop or lozenge (Col. 6, lines 25-28). Sprays, pastes or gels are also taught by

Art Unit: 1615

Caruso (Col. 6, lines 30-35, 63-65). The oral tablets further comprise additives such as calcium carbonate, calcium phosphate or kaolin (Col. 6, lines 18-24). Additional active agents may be added to the composition (Col. 8, lines ,12-27). Caruso recites DHE and its pharmaceutically acceptable salts (Col. 3, lines 14-40).

It is the position of the Examiner that any form of DHE, the salt or he base would be acceptable for the formulation of Caruso. At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to formulate a sublingual composition that contains DHE and a pH-adjusting agent. Elimination of an ingredient as well as its function does not impart patentability to a well-known formulation in the absence of said ingredient. One of ordinary skill in the art would have been motivated to do this to provide a method of treating migraines that is effective and achieves the effect in a short amount of time to bring quick and direct relief to the host. Therefore, the invention as a whole would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made.

Claims 1, 2, 4-8 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Plachetka (U.S Patent No. 5,872,145).

Plachetka teaches a method of treating migraines wherein an effective amount of a 5-HT agonist and NSAID are administered to a patient (CoI. 13, Claim 1', CoI. 3, lines 64-67). The 5-HT agonists include all types of 5-HT agonists, more specifically, 5-HT1, 5-HT1 B and 5-HT1 D agonists (CoI. 8, lines 1-20). Dihydroergotamine mesylate is one such example (CoI. 8, lines 1-20). The combination of active agents can be administered parenterally, enterally and topically and can be administered with

Art Unit: 1615

appropriate carrier as well as other pharmaceutically acceptable excipients (Col. 12, line 31 - Col. 13, line 19). The dosage form can be in the form of quick-dissolve tablet (Col. 13, Claim 17).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to formulate a sublingual composition that contains DHE and a pH-adjusting agent. Elimination of an ingredient as well as its function does not impart patentability to a well-known formulation in the absence of said ingredient.

One of ordinary skill in the art would have been motivated to do this to provide a method of treating migraines that is effective and achieves the effect in a short amount of time to bring quick and direct relief to the host. Therefore, the invention as a whole would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Caruso or Plachetka in combination with Azria et al. (U.S. Patent No. 4,758,423) or Plachetka et al. (U.S. Patent No. 6,495,535, hereinafter '535).

The teachings of Caruso and Plachetka are discussed above. Neither reference teaches that the DHE is in the base form. It is the position of the Examiner that any form of DHE would be effective in treating migraines. No criticality is seen in DHE being in the form of a base. Applicants have not shown any unexpected results from the base form. Further, the secondary references teach that the base form of DHE is known to be administered for treating migraines (Azria, Col. 3, lines 32-39', Plachetka, Col. 4, lines 1-4).

Art Unit: 1615

Claims 16-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Caruso or Plachetka in combination with Peyman (U.S Patent No. 5,855,907). or Plachetka et al. (U.S. Patent No. 6,495,535, hereinafter '535).

The teachings of Caruso and Plachetka are discussed above. Peyman teaches a method of treatment with an anti-inflammatory compound, which is a steroid', preferably, the steroid is gluocodicoid (column 2, lines 55). A method of treatment of migraine comprising the topical administration of an opioid with combination of anti-inflammatory compounds include steroids, particularly glucocodicoids, for example, cortisol, cortisone, prednisolone, dexamethasone and the like (column 5, line 55-65).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use any form of DHE is a method of treating migraines, including the base form. One of ordinary skill in the art would have been motivated to do this to provide a method treating migraines that is effective and achieves the elect in a short amount of time to bring quick and direct relief to the host. Therefore, the invention as a whole would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made.

Response to Argument

Applicant argue that the claims are not obvious, prior art does not teach the coformulation of steroid with any of the anti-migraine formulations, the laundry list fails to disclose steroids, the prima facie case of obviousness and the examiner has provided nothing but perfunctory and conclusory statements. The applicant furthermore, argued that the reference does not teach co-formulation of a steroid.

Art Unit: 1615

Applicant's arguments filed 08/25/2005 have been fully considered but they are not persuasive.

The Examiner would Like to point out that all combinations of references teach ingredients/components of the formulations that modulate the PH of the environment in which they are placed. Caruso teaches that components such as calcium carbonate can be used (Col. 6, lines 18-24). Further, Caruso is used to teach that DHE is a known antimigraine agent and can be administered in the form of a tablet formulated in any conventional manner to the oral mucosa for buccal and/or sublingual administration (Col. 6, lines 25-28). Plachetka teaches that DHE can be administered with appropriate carrier as well as other pharmaceutically acceptable excipients, including buffers, which can be modulating PH (Col. 12, line 31 - Col. 13, line 19). Peyman teaches a method of treatment with an anti-inflammatory compound, which is a steroid, preferably, the steroid is gluocorticoid (column 2, lines 55). A method of treatment of migraine comprising the topical administration of an opioid with combination of anti-inflammatory compounds include steroids, particularly glucocorticoids, for example, cortisol, cortisone, prednisolone, dexamethasone and the like (column 5, line 55-65). Therefore, applicants' arguments are found unpersuasive.

In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. The Examiner is not making mere bald, perfunctol, conclusory accusations to formulate the instant rejection. The Examiner is using only the

Art Unit: 1615

knowledge of the combinations of the references cited above see Caruso (col. 3 lines14-58, col. 6, lines1-67 and col. 6, lines 25-28); Plachetka (col. 3, lines 64-67, col. 8, lines 1-20, col. 12, lines 31 and col. 13, lines 19) and Peyman (col. 2, lines 55and col. 5, lines 55-65).

It is the position of the Examiner that the combinations of the prior art references are proper and the references recited teach the Imitations of the instant claims. Therefore, for the reasons stated above, applicant's arguments are unpersuasive and the prior art rejections are maintained.

Telephonic Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Desta L. Yebassa whose telephone number is 571-272-8511. The examiner can normally be reached on Monday to Friday 8.00 am -6.00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman K. Page can be reached on 571-272-0602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1615

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Desta L. Yebassa, PhD Patent Examiner Art Unit 1615

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600